

CLAIMS

1. An artificial turf comprising:
a backing; and
a plurality of resilient first fibers pre-stressed so as to have a non-linear shape with lateral excursions when not under tension, and a plurality of second fibers shaped to resemble grass blades, wherein at least one first and at least one second fiber are sewn through common openings in said backing, and extend upward from said backing to a cut end.
2. A turf as recited in claim 1 wherein said first fibers extend upward from said backing a first height and said second fibers extend upward from said backing a second height greater than said first height.
3. A turf as recited in claim 2 further comprising particles including resilient granules positioned in said turf.
4. A turf as recited in claim 2 wherein said second height is in the range of 2 to 3 inches, and said first height is in the range of $1\frac{3}{4}$ to $2\frac{3}{4}$ inches.
5. A turf as recited in claim 3 wherein a layer of said granules extends upward from said backing a height less than said first height.
6. A turf as recited in claim 5 wherein said lateral excursions of said first fiber provide resistance to motion of said particles.
7. A turf as recited in claim 6 wherein groups of said first fibers are spaced apart such that lateral excursions of first fibers of one group overlap lateral excursions of first fibers of an adjacent group thereby providing a mesh for resisting movement of said particles.
8. A turf as recited in claim 7 wherein said groups of first fibers are in rows separated by distances in the range of $\frac{3}{8}$ " to $\frac{3}{4}$ ".
9. A turf as recited in claim 1 wherein said first fibers are made from nylon.
10. A turf as recited in claim 1 wherein said second fibers are made from polyethylene.
11. A method of manufacture of artificial turf comprising:
sewing into a backing a plurality of resilient first fibers pre-stressed so as to have a non-linear shape with lateral excursions when not under tension, and a plurality of second fibers shaped to resemble grass blades, wherein at least one first and at least

one second fiber are sewn through common openings in said backing, and extend upward from said backing to a cut end.

12. A method as recited in claim 11 wherein said first fibers extend upward from said backing a first height and said second fibers extend upward from said backing a second height greater than said first height.

13. A method as recited in claim 12 further comprising
inserting particles including resilient granules in said turf.

14. A method as recited in claim 12 wherein said second height is in the range of 2 to 3 inches, and said first height is in the range of $1\frac{3}{4}$ to $2\frac{3}{4}$ inches.

15. A method as recited in claim 13 wherein a layer of said granules extends upward from said backing a height less than said first height.

16. A method as recited in claim 15 wherein said lateral excursions of said first fiber provide resistance to motion of said particles.

17. A method as recited in claim 16 wherein groups of said first fibers are spaced apart such that lateral excursions of first fibers of one group overlap lateral excursions of first fibers of an adjacent group thereby providing a mesh for resisting movement of said particles.

18. A method as recited in claim 17 wherein said groups of first fibers are in rows separated by distances in the range of $\frac{3}{8}$ " to $\frac{3}{4}$ ".

19. A method as recited in claim 11 wherein said first fiber is made from nylon.

20. A method as recited in claim 11 wherein said second fiber is made from polyethylene.